1832 1894

CODORUS IRON WORKS.

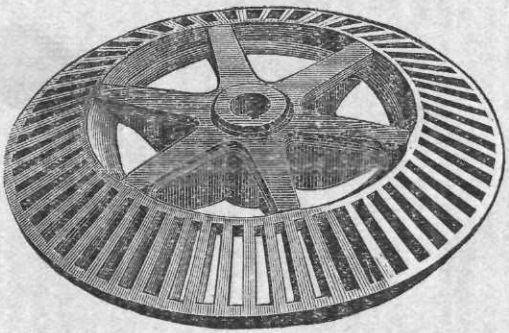
GEARING CATALOGUE

OF

BAUGHER, KURTZ & STEWART,

LIMITED

YORK, PENN'A,



MANUFACTURERS OF THE

RECKARD TURBINE WATER WHEEL,

York Bark Mill, York Corn Breaker,

MILL GEARING AND MACHINERY

OF ALL KINDS.

Send for large Illustrated Catalogue of Turbine Water Wheel and Machinery.

PRESS OF YORK DAILY YORK, PA.

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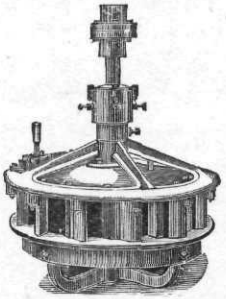

RECHARD TURBINE WATER WHEEL,

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INTRODUCTION.

We present to the reader and to the public a catalogue containing descriptions and prices of some of our manufactures, and in doing so we do not wish it to be understood that what is not described or listed in the following pages we do not make, as in the nature of things in a general Foundry and Machine shop there are one hundred articles of machinery made that never get into catalogues.

We are and have been for years adding new machinery as well as experience to our business and it gives us pleasure to say that our many customers have given substantial proofs of their appreciation of our efforts, and we desire to cordially express our thanks to them all for their many marks of favor.

Since the publication of our last catalogue we have been daily adding to our stock of patterns of all kinds, some of which will be found among the gearing list contained in this catalogue.

We would at all times be glad to furnish estimates on work required, whether it be listed or not. It is always more satisfactory both to us and our customers.

We have large facilities for doing both foundry and machine shop work and can furnish anything in any of our lines as quickly as it can be done anywhere, and usually quicker.

We use the best of material for our castings and other manufactures, and employ only the best mechanical skill, and hence, when once we have secured a customer we are enabled to retain him.

Our works, located at York, Pennsylvania, are within easy competing distance of New York, Philadelphia, Baltimore, Pittsburg and intermediate points, and as a consequence, we are daily ship-

ping castings in quantities of from one pound to a carload to all these and many other places.

In addition to the articles described and listed in this catalogue, we manufacture Passenger, Street, Freight, Dump, Mine, Truck, Hand and Push Car castings, and Mining, Truck and Hand Car wheels; also Safe castings, General Machinery, heavy and light Gearing and Pulley castings.

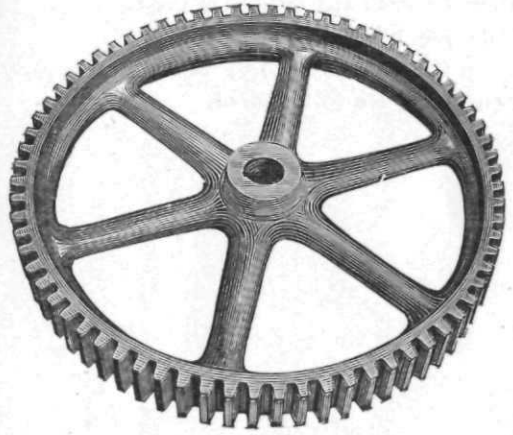
In conclusion we beg to say that all orders entrusted to us will have immediate and careful attention, and will be executed at the lowest price for which good work can be obtained.

Very Respectfully Yours,

BAUGHER, KURTZ & STEWART, *Limited.*

MILL GEARING.

IN CALLING attention to our Gearing Patterns, we desire to say that there are erroneous impressions existing with many Millers and even some Millwrights in reference to strength. This erroneous idea is that the more iron there is in a wheel the stronger it is. **This is only true when the pattern is properly proportioned throughout.** A well proportioned wheel of light weight, the metal being concentrated to those particular points where it is



needed, is much better than a heavy wheel of a pattern made without regard to the proper distribution of the metal. An unequal distribution of metal is almost sure to produce unequal contraction and expansion, resulting in breakages. METAL COSTS MONEY, and the value or selling price to a great extent depends on the weight or amount of metal used, therefore light and well proportioned Gearing can be sold for less money than that which

is heavy and cumbersome. This branch of our business has had the special attention of skilled draftsmen and pattern makers for a number of years, and we believe that we have as well, if not better, proportioned patterns than can be found anywhere else.

Since issuing our last catalogue, we have added many new and desirable patterns to our already large and well selected stock, some of which are very heavy. They will be found among the patterns in the following lists.

We make a specialty of **Heavy Gearing,** and if you do not find what you want in our lists, write us and we will quote you low prices.

Persons ordering Gearing are **particularly** requested to observe the following Rules:

1st. Give the Number of Pattern and page of book.

2nd. Give the Pitch and number of Cogs.

3rd. State size Wheels are to be bored.

4th. When the Wheels are to be bored by the party ordering, state the **size they are to be bored.**

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
1	3·3 3/16	41	3	4	4	391
2	2.10 7/16	36	3	8	8 1/2	828
3	2.6 5/8	32	3	8	8 1/2	736
4	2. 7/8	26	3	5 3/4	5 3/4	406
5	4.6 7/16	57	3	8	8	1525
6	3.0 5/16	38	3	8	8	873
7						
8						
9						
10	5.10	80	2 3/4	7 1/4	8	2030
11	2.8 3/4	37	2 3/4	10	10	910
12						
13						
14						
15						
16	5.5 1/4	80	2 9/16	5	7	935
17	2.2 3/8	32	2 9/16	5	6	357
18	1.1 7/8	17	2 9/16	5 1/2	6	150
19	.9 13/16	12	2 9/16	5 1/2	5 1/2	119
20						
21						
22						
23						
24	5.11 5/8	90	2 1/2	6	7	1340
25	3.7	54	2 1/2	6 1/4	7	763
26	2.11	44	2 1/2	7	8	884
27	2.11	44	2 1/2	6	6	492
28	2.7 7/8	40	2 1/2	6	8	595
29	2.6 1/4	38	2 1/2	4 3/4	5	479
30	2.5 1/2	37	2 1/2	6 1/4	6 1/2	410
31	2.3 1/16	34	2 1/2	6	6	362
32	2.1 1/2	32	2 1/2	6	6	353
33	2.0 11/16	31	2 1/2	6 1/4	6 1/2	374
34	.10 5/16	13	2 1/2	6 1/2	6 1/2	136
35	1.4 3/4	21	2 1/2	5 1/2	5 1/2	209
36	1.7 15/16	25	2 1/2	6	6 1/4	245
37	.9 7/16	12	2 1/2	6 1/4	6 3/4	96
38						
39						
40						
41						
42						
43						
44						

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
50						
51	3.11 1/4	66	2 1/4	4 3/4	6	
52	3.0 9/16	51	2 1/4	7	8	510
53	2.11 1/16	50	2 1/4	7	8	666
54	2.6 1/16	43	2 1/4	4 1/2	5	629
55	2.4	39	2 1/4	4 1/2	5 1/4	356
56	2.1 1/16	36	2 1/4	4 1/4	5	323
57	1.11 1/16	33	2 1/4	5 3/8	6	290
58	1.11 1/16	33	2 1/4	6	6 1/2	357
59	1.8 1/16	29	2 1/4	7	7 1/2	285
60	1.7 3/8	27	2 1/4	7 1/4	7 3/4	323
61	1.7 3/8	27	2 1/4	4 1/2	4 3/4	295
62	1.6 1/16	26	2 1/4	7	8	170
63	1.2 1/8	20	2 1/4	4 5/8	4 7/8	340
64	1.1/4	17	2 1/4	5 1/4	5 7/8	119
65	1.3 1/16	22	2 1/4	5 1/4	5 5/8	135
66	.6 9/16	9	2 1/4	6 1/2	6 3/4	175
67	2.6 1/8	42	2 1/4	6	6 1/2	51
68	.8 5/8	12	2 1/4	4 3/4	4 1/4	410
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						
82						
83						
84						
85	2.7 3/16	47	2 1/8	5 3/4	5 3/4	350
86	2.2 3/8	39	2 1/8	5 3/4	5 3/4	340
87	1.7 5/8	29	2 1/8	5 7/8	5 7/8	187
88	.10 1/4	15	2 1/8	5	5 1/2	
89						
90						
91						
92						
93						
94						
95						

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
96	5.5 9/16	103	2	7	7	1294
97	5.3 1/2	99	2	6	7	1000
98	4.11 7/8	94	2	5	6 1/2	853
99	2.11 1/16	56	2	5 1/2	6	476
100	2.5 1/16	47	2	5	6	300
101	2.5 1/16	47	2	3 3/4	5	275
102	2.1 1/2	40	2	5 1/4	5 5/8	289
103	2.0 1/2	39	2	5	6	250
104	1.11 1/16	37	2	3 3/4	4	204
105	1.9 1/16	33	2	6	7	250
106	1.5 7/8	28	2	3 3/8	3 5/8 Rim	111
107	1.5 1/2	27	2	5	5	156
108	.9 3/8	15	2	7 3/8	7 3/8	119
109	.8 1/16	14	2	5	5	76
110	.8	13	2	5 1/2	5 1/2	63
111	.7 5/8	12	2	5 1/2	5 1/2	57
112	1.0 3/4	20	2	7 1/2	7 1/2	
113						
114						
115						
116						
117						
118						
119						
120						
121						
132	4.9 1/16	104	1 3/4	5 7/8	6 1/2	604
133	2.5 1/16	53	1 3/4	4 1/2	5	270
134	2.3 7/8	50	1 3/4	4 1/8	4 3/8	223
135	1.10 5/16	40	1 3/4	6 1/8	6 3/8	223
136	1.9 3/16	38	1 3/4	6 1/4	6 1/2	238
137	1.6 1/16	34	1 3/4	4 1/2	5	187
138	.10 1/16	18	1 3/4	6	6	102
139	.8 7/16	15	1 3/4	5	5	42
140	.6 1/8	11	1 3/4	6	6	34
141	.6 1/16	12	1 3/4	5	5	30
142	3.8 9/16	80	1 3/4	4 1/2	6	
143	.7 1/4	13	1 3/4	4 3/4	4 3/4	
144	1.5 1/16	32	1 3/4	4 1/2	5	
145						
146						
147						
148						
149						
150						
151						

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
152	3.6 3/8	82	1 5/8	3	4 1/2	250
153	.6 3/16	12	1 5/8	3 3/4		25
154						
155						
156						
157						
158						
159						
160						
161						
162						
163						
164	5.7 5/16	141	1 1/2	3 1/2	4	490
165	4.1 1/16	102	1 1/2	4	4 1/2	440
166	3.5 1/16	86	1 1/2	4	3	255
167	2.7 1/2	66	1 1/2	4	4	209
168	2.2 3/4	56	1 1/2	4	4 1/4	177
169	1.7 7/16	41	1 1/2	4 1/4	5	152
170	1.6 3/16	38	1 1/2	4	3 3/4	127
171	1.3 3/4	33	1 1/2	4	4 1/4	105
172	1.3 5/16	32	1 1/2	3	3 1/4	68
173	1.	25	1 1/2	3	3 1/4	59
174	.11	23	1 1/2	4 5/8	4 7/8	85
175	.10 1/16	21	1 1/2	3 1/2	4	65
176	.6 3/16	13	1 1/2	4 1/2	4 1/2	42
177	.6 3/16	13	1 1/2	3 1/4	3 1/4	34
178	.6 3/16	13	1 1/2	2 5/8	2 5/8	25
179	.5 3/4	12	1 1/2	3	3	34
180	1.8 9/16	43	1 1/2	2 1/2	3 1/4	77
181	.8 3/16	17	1 1/2	3 1/8	3 1/8	38
182	2.10 3/8	72	1 1/2	4	4 1/2	252
183	.7 1/16	16	1 1/2	4	4	43
184	.6 1/16	14	1 1/2	4	4	
185	1.11 5/16	50	1 1/2	4	4	
186	1.1 3/8	28	1 1/2	4	4	80
187	.5 3/4	12	1 1/2	4 3/8	4 3/8	36
188	.11 1/2	24	1 1/2	4	4	70
189	1.0 7/8	26	1 1/2	4	4	75
190	1.2 5/16	30	1 1/2	4	4	85
191	1.3 7/16	32	1 1/2	4	4	90
192	.4 3/8	10	1 1/2	4 1/4	4 1/2	16
193	.8 1/8	18	1 1/2	4 1/4	4 1/4	
194	3.11 3/4	100	1 1/2	4	4 1/4	339
195	1.3 3/4	33	1 1/2	4	4 1/4	95
196	.9 1/8	19	1 1/2	4		
197						

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Weight.
No.	Ft. In	No.	Inches.	Inches.	Inches.	Pounds.
198						
199						
200						
201						
202						
203						
204						
205						
206						
207						
208	2.7 1/2	72	1 3/8	2 1/2	2 3/4	58
209	1.4 3/16	37	1 3/8	2 1/8	2 1/4	39
210	.8 1/4	20	1 3/8	2	2	36
211	.11 1/16	26	1 3/8	2	2	18
212	.6 1/8	14	1 3/8	2 1/2	2 1/4	
213	3.4 1/8	91	1 3/8	2	4	
214	.4	9	1 3/8	3	3	
215						
216						
217						
218						
219						
220						
221						
222						
223						
224						
225	1.0 3/4	32	1 1/4	3	3 1/4	50
226	1.11 1/8	58	1 1/4	3	3	102
227	.3 6/16	9	1 1/4	3 1/4	3 1/4	9
228	1.9 1/8	53	1 1/4	3 1/2	3 1/2	156*
229	.8 3/4	22	1 1/4	3 1/2	3 1/2	58
230	.6 3/16	17	1 1/4	3 1/2	3 1/2	28
231	.6	15	1 1/4	2 5/8	2 5/8	10
232	.4 3/4	12	1 1/4	3 1/2	3 1/2	14
233	.8	20	1 1/4	3 1/2	3 1/2	40
234	2.6 1/4	76	1 1/4	3	4	150
235	.10 3/8	26	1 1/4	3	3	40
236	1.11 7/8	60	1 1/4	1 1/2	2 1/2	56
237	.5 5/8	14	1 1/4	3 3/8	3 1/2	20
238	.5 3/16	13	1 1/4	3 1/8	3 1/8	18
239	1.7 7/8	48	1 1/4	3	3 1/4	
240	.6	15	1 1/4	3	3	
241						
242						
243						

*PLATE.

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
244	1.2 5/16	40	1 1/8	3		60
245	.10	28	1 1/8	3 1/8	3 1/8	
246	.7 7/8	22	1 1/8	1 1/2	1 1/2	
247	.3 1/8	11	1 1/8	3 1/2	3 1/2	
248						
249						
250						
251						
257	1.4 1/4	48	1 1/16	1 3/4	1 3/4	48
258	.4 1/16	12	1 1/16	1 7/8	1 7/8	5
259	1. 3/16	36	1 1/16	1 1/4	2 1/4	
260						
261						
262						
263						
264						
265	2.11 5/16	111	1	1 7/8	1 7/8	98
266	1.10 5/16	72	1	2 1/2	2 1/2	68
267	1.9	66	1	2 1/2	2 1/2	68
268	1.8 1/16	65	1	3 1/2	3 1/2*	128
269	1.5 1/16	56	1	2 1/2	1 3/4*	26
270	1.2 5/16	45	1	1 1/2	1 1/2*	21
271	.11 7/16	36	1	1 1/2	1 1/2	34
272	.11 1/8	35	1	1 1/2	2	18
273	.8 5/16	28	1	2 1/4	2 1/4	34
274	.6 1/16	19	1	3 1/2	3 1/2*	26
275	.6 1/16	19	1	2 1/2	3 3/8	10
276	.5 1/8	16	1	3	3	16
277	.5 7/16	17	1	2 1/8	2 1/8	11
278	.3 1/4	10	1	2	2	3
279	.2 7/8	9	1	2 1/2	2 1/2	3
280	.3 7/8	12	1	4	4	8
281	.3 7/8	12	1	2 1/2	2 1/2	5
282	.11 13/16	37	1	2 1/2	3	
283	.7	22	1	2 1/2		
284	1.11 7/8	75	1	2	2 1/2	77
285	.4 3/16	13	1	2	2	
286	.5 1/4	18	1	2 1/2	2 1/2	
287	1.1 1/16	41	1	2 1/2	2 1/2	
288	.4 13/16	15	1	2 1/2	2 1/2	
289	.5 7/16	17	1	2 1/2	2 1/2	
290	.10 3/16	32	1	2 1/2	2 1/2	
291	1.4 7/8	53	1	2 1/2	2 1/2	34
292	.3 9/16	11	1	2 1/2	2 1/2	5
293	2.4 1/8	90	1	2 1/2	2 1/2	

* PLATE

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
294						
295						
296						
297						
298						
299						
300						
301						
302						
303						
304						
305						
306						
307	.5 1/16	18	7/8	2	2	
308	.5 1/8	21	7/8	2	2 1/8	16
309	.3 5/16	14	7/8	2 1/4	2 1/4	7
310	2.1 3/16	89	7/8	1 1/2	1 1/2	50
311	1.4 3/4	60	7/8	1 1/2	1 1/2	40
312	.8 1/16	29	7/8	1 3/4	1 3/4	26
313	.6 1/8	22	7/8	1 7/8	1 7/8*	
314	.5 1/16	18	7/8	1 3/8	1 3/8*	
315	.4 3/8	17	7/8	1 1/2	1 1/2*	
316	.3 3/8	13	7/8	1 5/8	1 5/8*	
317	.2 1/4	8	7/8	1 1/2	1 1/2*	
318	1.0 3/16	46	7/8	1 1/2	2	
319	.6 1/8	22	7/8	1 1/2	2	
320	1.7 1/2	70	7/8	2	2 1/4	38
321	1.4 3/4	60	7/8	2	2 1/4	34
322	.3 3/8	12	7/8	2	2	
323						
324						
325						
326	1.3 1/2	60	1 3/16	1 3/4	2 3/8	40
327	.4 5/8	17	1 3/16	1 5/8	1 5/8*	
328	.3 7/8	15	1 3/16	1 3/4	4 1/4*	
329	.3 3/8	13	1 3/16	1 3/4	1 3/4*	
330	.3 1/8	12	1 3/16	1 1/4	1 1/2	2
331						
332						
333						
334						
335						
336						
337						
338						
339						

* PLATE.

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds
340	2.7 1/2	130	3/4	1 1/2	2	68
341	2.5 5/8	123	3/4	1 3/4	2	34
342	2.4 5/8	120	3/4	1 5/16	1 7/8	43
343	2.2 3/4	112	3/4	1 1/2	2 1/4	40
344	.11 11/16	49	3/4	1 1/2	1 1/2	18
345	.3 5/8	15	3/4	1 1/2	1 1/2*	
346	.3 3/8	14	3/4	1 1/2	1 1/2*	
347	.11 15/16	50	3/4	1 1/2	2	15
348	.11 7/16	48	3/4	2	2 1/2	16
349	.3 7/8	16	3/4	2	2	6
350	.10 3/4	45	3/4	1 1/2	2	14
351	.2 7/8	12	3/4	2	2	5
352						
353						
354						
355						
356						
357						
368	1.3 3/4	72	1 1/16	1 1/2	2	26†
369	.11 1/16	52	1 1/16	1 1/4	1 3/4	22
370	.10 1/2	48	1 1/16	1 1/4	1 5/8*	
371	.9 3/16	42	1 1/16	1 1/8	2*	
372	.2 3/4	17	1 1/16	2	2	
373						
374						
375						
376						
377						
378						
379						
380						
381	1.9 1/2	108	5/8	1 1/16	1 3/4	25
382	1.0 3/8	63	5/8	1 5/8	1 5/8	22
383	.7 9/16	38	5/8	2 1/16	2 1/16*	
384	.5 3/8	27	5/8	1 1/4	1 1/4	6
385	.3 7/16	17	5/8	1 1/2	1 1/2*	
386	.2 5/8	13	5/8	2 1/4	2 1/4	
387	.2 7/16	12	5/8	1 1/4	1 1/4	
388						
389						
390						
391						
392						
393						
394						
395						

* PLATE. †SHORT COGS.

No. of Pattern,	Diameter,	No. of Cogs.	Pitch,	Face,	Depth of Eye,	Weight,
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
396	2.1 5/16	159	1/2	1 3/8	1 1/2*	35
397	1.10	138	1/2	1 1/4	1 3/4	
398	1.10	138	1/2	1 1/4	1 1/4	17
399	1.6 1/8	114	1/2	1 1/4	1 1/4	
400	1.2 5/8	92	1/2	1 1/4	1 3/8*	
401	.5 7/16	34	1/2	1	1*	
402	1.6 7/16	116	1/2	1 1/8	1 7/8	20
403	.4	25	1/2	1 1/2	1 1/2*	
404	.2 1/16	16	1/2	1	1*	
405	.2 7/16	15	1/2	1	1*	
406	.2 1/16	13	1/2	1 5/8	1 5/8*	
407						
408						
409						
410						
411						
412						
413						
423	1.7/8	108	3/8	3/4	1 1/8	8
424	1.1/16	102	3/8	3/4	1 1/8	8
425	.4 5/16	36	3/8	1/2	7/8*	
426	.3 3/8	26	3/8	1	1*	
427	.10	84	3/8	3/4		
428						
429						
430						
431						
432						
433						
434						
435	2.5 1/4	23	4	5 1/8	5 1/2	410
436	2.6 3/8	36	2 5/8	7 1/4	8	560
437	1.11 5/16	36	2 5/16	5 5/8	6	360
438	2.1/4	42	1 13/16	6	7	323
439	.9 13/16	17	1 13/16	6 1/4	6 3/4	95
440	.9 3/16	20	1 7/16	2 3/8	2 3/8*	
441	2.9/16	65	1 3/16	4	4 1/2	
442	3.1 1/8	127	1 1/16	2	2	
443	1.4 1/8	90	9/16	7/8	1*	
444	.10 3/4	60	9/16	1 1/8	1 3/4*	
445	.3 5/8	19	9/16	1 1/8	1 1/8	
446	4.11 66/100	60	3 1/8	12	12 1/2	3020
447						
448						
449						
450						

* PLATE

No.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Face of Rim.	Depth of Rim.	Length of Mortise.	Width of Mortise.	Weight.
No.	Ft. In.	No.	In.	In.	In.	In.	In.	In.	In.	Lbs.
474										
475										
476										
477										
478										
479										
480	5.11 3/8	90	2 1/2	5 3/4	7 1/4	6 1/2	3 1/2	5 5/8	1 1/4	1050
481	2. 1 1/16	31	2 1/2	5 1/2	7	6 3/16	2 1/4	5	1 1/4	200
482	1.7 1 5/16	25	2 1/2	5 1/2	6 1/2	6 1/2	3 1/8	5	1	155
483	1.4 3/4	21	2 1/2	5 3/4	7	7	3 1/8	5 1/4	1	140
484	3.7	54	2 1/2	7	8	8	2 1/2	6 3/8	1 3/16	605
485										
486										
487										
488										
489										
490										
491										
492										
493										
494										
505	4.0 7/10	68	2 1/4	8	10 1/4	9 1/2	2 3/4	7 1/2	1 1/8	1056
506	3.4 84/100	57	2 1/4	8	10 1/4	9 1/2	2 3/4	7 1/2	1 1/8	832
507	2.6 8/10	43	2 1/4	8	10 1/4	9 1/2	2 3/4	7 1/2	1 1/8	554
508	5.11 3/8	100	2 1/4	5	8	6	2 1/8	4 3/8	1	1160
509	5.6 3/8	93	2 1/4	6	7 1/2	6 3/4	2 3/8	5 1/4	1 3/16	952
510	3.7	60	2 1/4	5	7 1/4	6 1/2	2 3/4	5	7/8	550
511	3.1 1/4	52	2 1/4	5	7	6 1/8	2	4 1/2	1 1/8	420
512										
513										
514										
515										
516										
517	5.0 16/100	63	3	12	14 1/4	14	4 1/2	5 1/4	1 3/4	2560
518	7.3 4/10	92	3	12	14	13	3 3/4	5 1/4	1 3/4	3715
519	5.10 3/8	104	2 1/8	4 1/2	6 1/2	4 1/8	2 1/4	3 3/8	1 1/8	700
520	5.10 3/8	104	2 1/8	5	7 1/2	6	3 1/4	4 3/8	1	920
521	1.6 1/4	27	2 1/8	5	6	6	2 1/2	4 1/2	1	150
522										
523										
524										
525										
526										
527										
528										
529										

No.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Face of Rim.	Depth of Rim.	Length of Mortise.	Width of Mortise.	Weight.
No.	Ft. In.	No.	In.	In.	In.	In.	In.	In.	In.	Lbs.
530	6.8 1/4	126	2	5 1/2	8	6	2 1/4	4 3/8	1 1/8	1080
531	5.11 15/16	112	2	5	7 3/4	5 3/4	2 1/4	4 1/2	1 1/16	780
532	5.1 1/8	96	2	5 1/4	6 3/4	6	2 1/8	4 3/8	1	685
533	4.1 1/16	78	2	6	7 1/2	6 3/8	2 1/8	5	1	576
534	3.8 9/16	70	2	4 3/8	5 1/4	5 3/4	2	4	1 1/16	360
535	2.11 1/16	56	2	5 1/4	6 1/8	6	2	4 3/4	1/16	350
536	1.10 5/16	36	2	5 1/2	6 1/2	6	2 1/2	5	3/4	195
537	1.8 3/8	32	2	5	6 1/2	5 3/4	2	4 1/2	1/16	140
538	1.3 5/16	24	2	4 1/2	5 1/4	5 1/4	2 5/8	4	1/8	94
539	2.7 7/8	50	2	6	6 1/2	6 1/2	2 1/4	5 1/4	1 1/16	345
540	2.4	44	2	6	7	6 5/8	2 1/4	5 1/4	1	282
541	2.1 1/2	40	2	5 1/2	6 1/2	6 1/4	2 1/8	5	1	
542	3.2 1/16	60	2	6	7	6 5/8	2 1/4	5 1/4	1	428
543	1.5 1/8	28	2	6	7	6 3/8	2 1/8	5 1/4	1	148
544										
545										
546										
547										
548										
549										
550										
551										
552										
553										
554										
555										
565	3.11 11/16	86	1 3/4	5 1/4	6 1/2	6	2	4 3/4	3/4	440
566	2.8 5/16	58	1 3/4	5 1/2	6 3/4	6	1 7/8	4 3/4	7/8	265
567										
568										
569										
570										
571										
582	7.6 1/16	120	2 3/8	5 1/2	8	6 3/8	2 1/2	5	1 1/8	1570
583	3.9 54/100	52	2 3/4	12	14 1/2	13 3/8	3 1/4	2 of 5 1/2	1 3/8	1625
584										
585										
586										
587										
588	1.3 1/4	12	4	5	6 1/2	6	2	4 1/2	1 5/8	110
589	1.8 3/8	16	4	5	6 1/2	6	1 3/4	4 1/2	1 3/8	150
590										
591	10.2 1/4	128	3	6		8	3 1/4			*
592	1.10 1/4	20	3 1/2	5	6 1/2	6	3 1/8	4 5/8	1 3/8	226
593	5.18/100	54	3 1/2	15	18	17 1/4	4 1/8	6 1/8	1 7/8	3105

*Rim and hub are cast iron, arms are made of wood. Is used on Powder Press Screw.

No.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Thickness of Cog on Pitch Line.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Inches.	Pounds
594	2.11	44	$2\frac{1}{2}$	7	$7\frac{1}{2}$	$\frac{11}{16}$	480
595	$1.9\frac{1}{2}$	27	$2\frac{1}{2}$	6	$6\frac{1}{2}$	$\frac{5}{8}$	168
596	$1.7\frac{15}{16}$	25	$2\frac{1}{2}$	$5\frac{3}{4}$	$6\frac{1}{4}$	$\frac{5}{8}$	166
597	$1.6\frac{3}{8}$	23	$2\frac{1}{2}$	6	$6\frac{1}{2}$	$\frac{5}{8}$*	155
598	$1.4\frac{3}{4}$	21	$2\frac{1}{2}$	$5\frac{3}{4}$	6	$\frac{5}{8}$	140
599	$1.2\frac{3}{8}$	18	$2\frac{1}{2}$	6	$6\frac{1}{2}$	$\frac{5}{8}$	112
600	$1.10\frac{1}{4}$	28	$2\frac{1}{2}$	7	$7\frac{1}{2}$	$\frac{3}{4}$	126
601							
602							
603							
604							
605							
606							
607							
608							
609							
615	$2.3\frac{15}{16}$	37	$2\frac{3}{8}$	$3\frac{5}{8}$	5	$\frac{7}{8}$	182
616	$1.6\frac{7}{8}$	24	$2\frac{3}{8}$	6	$6\frac{1}{2}$	$\frac{3}{4}$	176
617	$1.3\frac{7}{8}$	21	$2\frac{3}{8}$	6	$6\frac{1}{2}$	$\frac{3}{4}$	141
618							
619							
620							
621							
624	$2.2\frac{3}{4}$	28	3	12			
625	$2.7\frac{3}{4}$	28	$3\frac{1}{2}$	15	15	$1\frac{1}{4}$	1304
626	$.9\frac{9}{16}$	10	3	10	10	$1\frac{1}{8}$	
627	$5.0\frac{16}{100}$	63	3	12			2076
628	$1.9\frac{85}{100}$	23	3	12	10	1	663
629	$2.7\frac{9}{16}$	44	$2\frac{1}{4}$	$6\frac{1}{2}$	$7\frac{1}{2}$	$\frac{5}{8}$	335
630	$1.10\frac{15}{16}$	32	$2\frac{1}{4}$	6	$6\frac{1}{2}$	$\frac{5}{8}$	216*
631	$1.10\frac{1}{4}$	31	$2\frac{1}{4}$	6	$6\frac{1}{2}$	$\frac{5}{8}$	209*
632	$1.6\frac{11}{16}$	26	$2\frac{1}{4}$	6	6	$\frac{5}{8}$	165
633	$1.5\frac{1}{2}$	24	$2\frac{1}{4}$	6	$6\frac{1}{2}$	$\frac{5}{8}$	112
634	$1.5\frac{1}{4}$	24	$2\frac{1}{4}$	7	$7\frac{1}{2}$	$\frac{5}{8}$	160
635	$1.2\frac{3}{8}$	20	$2\frac{1}{4}$	7	$7\frac{1}{2}$	$\frac{5}{8}$*	
636	$1.\frac{1}{4}$	17	$2\frac{1}{4}$	$5\frac{1}{2}$	6	$\frac{5}{8}$	112
637	$2.6\frac{1}{10}$	42	$2\frac{1}{4}$	8	$8\frac{1}{4}$		
638							
639							
640							
641							
642							
643							
644							

*RIM.

No.	Diameter.	No. of Cogs.	Pitch.	Face.	Depth of Eye.	Thickness of Cog on Pitch Line.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Inches.	Pounds
666	1.11	34	$2\frac{1}{4}$	6	$6\frac{1}{2}$	$\frac{7}{8}$	212
667	1.11	34	$2\frac{1}{4}$	$8\frac{1}{4}$	$8\frac{3}{8}$	$\frac{5}{8}$	325
668	$1.6\frac{1}{4}$	27	$2\frac{1}{4}$	$6\frac{1}{4}$	$8\frac{3}{4}$	$\frac{5}{8}$	152
669	$1.4\frac{15}{16}$	25	$2\frac{1}{4}$	$5\frac{3}{4}$	6	$\frac{5}{8}$	182
670	$1.2\frac{3}{16}$	21	$2\frac{1}{4}$	6	$6\frac{3}{4}$	$\frac{9}{16}$	138
671							
672							
673							
674							
675							
676							
677							
699	$2.7\frac{3}{16}$	48	$2\frac{1}{16}$	$4\frac{3}{4}$	$5\frac{1}{4}$	$\frac{5}{8}$	314
700							
701							
702							
703	$1.10\frac{8}{16}$	26	$2\frac{3}{4}$	12	12		
704							
705							
710	$2.9\frac{3}{4}$	53	2	$5\frac{1}{4}$	$5\frac{3}{4}$	$\frac{9}{16}$	277
711	$2.7\frac{3}{16}$	49	2	$5\frac{1}{4}$	$6\frac{1}{4}$	$\frac{1}{2}$	233
712	$2.5\frac{5}{16}$	46	2	6	7	$\frac{1}{2}$	224
713	$2.1\frac{1}{2}$	40	2	6	$6\frac{3}{4}$	$\frac{9}{16}$	208
714	$1.10\frac{5}{16}$	35	2	6	$6\frac{1}{2}$	$\frac{1}{2}$	155
715	$1.5\frac{1}{4}$	27	2	$5\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{2}$	145
716	$1.3\frac{5}{16}$	24	2	6	$6\frac{1}{2}$	$\frac{1}{2}$	113
717	$1.11\frac{15}{16}$	37	2	6	$6\frac{1}{2}$	$\frac{1}{2}$	178
718	$1.0\frac{3}{4}$	20	2	6	$6\frac{1}{2}$	$\frac{1}{2}$	
719	$3.\frac{9}{10}$	58	2	$5\frac{1}{2}$	6	$\frac{1}{2}$	326
720	$.8\frac{3}{16}$	13	2	5	5	$\frac{1}{2}$	
721							
722							
723							
724							
725							
726							
727							
728							
729							
747	$1.11\frac{7}{16}$	38	$1\frac{15}{16}$	6	$6\frac{1}{2}$	$\frac{5}{8}$	230
748							
749							
758	$1.5\frac{7}{8}$	32	$1\frac{3}{4}$	6	$6\frac{1}{2}$	$\frac{1}{2}$	115
759	$.7\frac{3}{16}$	14	$1\frac{3}{4}$	5	5	$\frac{1}{2}$	45
760							
761							

No.	Diameter.	No. of Cogs.	No. of Cogs in Segments.	Pitch.	Face.	Depth of Eye.	No. of Segments
No.	Ft. In.	No.	No.	Inches.	Inches.	Inches.	No.
768	8.2⅛	72	9	4 5/16	5½	9	8
769							
770							
771							
772							
773							
774	7.11 45/100	96	12	3⅛	12	14	8
775							
776							
777							
778							
779							
780	7.11½	120	15	2½	6	8	8
781							
782							
783							
784							
785							
786							
787							
788							
789							
790							
791	8.8½	150	15	2 3/16	4⅛	7½	10
792							
793							
794							
795							
796							
797							
798							
799							
800							
801							
802	8.1⅔	144	18	2⅛	5½	9	8
803							
804							
805							
806							
807							
808							
809							
810							
811							
812							

No. of Pattern.	Diameter on Pitch Line.	Inside Diameter.	No. of Cogs.	Pitch.	Face.	No. of Segments	Weight.
No.	Ft. In.	Ft. In.	No.	Inches.	Inches.	No.	Pounds
813	9.7½	9.3¾	10	3	5	12	820
814	4.9⅜	4.5¾	10	3	5	6	409
815							
816							
817							
818							
819							
820							
821							
822							
823							
824							
825	16.6⅛	16.2	11	2⅞	4½	20	1360
826	12.0	11.7½	13	2⅞	4½	12	768
827	8.11½	8.7	10	2⅞	4	12	714
828							
829							
830							
831							
832							
833							
834							
835							
836							
837							
838	14.2½	13.10½	17	2⅝	7	12	2140
839							
840							
841							
842							
843							
844							
845							
846							
847							
848							
849	15.01	14.9	14	2 9/16	4	16	1080
850							
851							
852							
853							
854							
855							
856							
857							
858							

No of Pattern.	Diameter on Pitch Line.	Inside Diameter.	No. of Cogs.	Pitch.	Face.	No. of Segments	Weight.
No.	No.	Ft. In.	No.	Inches.	Inches.	No.	Pounds
859	19.3$\frac{1}{4}$	19.0	12	2$\frac{1}{2}$	3$\frac{1}{2}$	24	1020
860	11.8$\frac{5}{8}$	11.4$\frac{1}{2}$	15	2$\frac{1}{2}$	3$\frac{1}{2}$	12	612
861	9.11$\frac{1}{4}$	9.7	19	2$\frac{1}{2}$	7	8	1632
862	9.5	8.0$\frac{3}{4}$	12	2$\frac{1}{2}$	5	12	918
863							
864	7.2$\frac{3}{4}$	6.11	18	2$\frac{1}{2}$	4$\frac{5}{8}$	6	561
865							
866	8.5$\frac{7}{8}$	8.1$\frac{3}{8}$	16	2$\frac{1}{2}$	6	8	1024
867	7.11$\frac{1}{2}$	7.6$\frac{3}{4}$	15	2$\frac{1}{2}$	8	8	1623
868	9.6$\frac{5}{8}$	9.2$\frac{3}{8}$	18	2$\frac{1}{2}$	6	8	1017
869	17.4$\frac{1}{2}$	17.0	6 of 17; 10 of 16.	2$\frac{1}{2}$	4$\frac{1}{4}$	16	1360
870	6.4$\frac{3}{8}$	5.11$\frac{7}{8}$	16	2$\frac{1}{2}$	5	6	
871							
872							
873							
874							
875							
876							
877							
878							
887	18.5	18.0$\frac{1}{2}$	19	2$\frac{1}{4}$	5$\frac{3}{8}$	16	2432
888	10.1$\frac{1}{2}$	9.9$\frac{1}{2}$	21	2$\frac{1}{4}$	4$\frac{1}{8}$	8	768
889	14.6	14.2	15	2$\frac{1}{4}$	4	16	1024
890	5.3	4.11	11	2$\frac{1}{4}$	3$\frac{5}{8}$	8	276
891	10.0	9.8$\frac{3}{4}$	21	2$\frac{1}{4}$	4$\frac{1}{2}$		
892	6.9$\frac{5}{8}$		18	2$\frac{1}{4}$	6	6	Rag. En.
893	23.10$\frac{3}{16}$	23.6$\frac{1}{16}$	20	2$\frac{1}{4}$	4	20	1780
894	16.4$\frac{1}{4}$	16.0$\frac{1}{4}$	14 of 17; 2 of 18.	2$\frac{1}{4}$	3$\frac{1}{2}$	16	
895	6.5$\frac{3}{8}$	6.1$\frac{3}{8}$	18	2$\frac{1}{4}$	5	6	600
896							
897							
898							
899							
900							
901							
902							
903							
904							
905							
906							
907							
908							
909							
910							
911							
912							

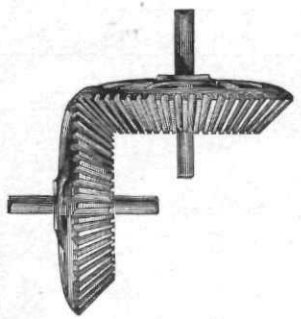
No. of Pattern.	Diameter on Pitch Line.	Inside Diameter.	No. of Cogs.	Pitch.	Face.	No. of Segments	Weight.
No.	Ft In.	Ft. In.	No.	Inches.	Inches.	No.	Pounds
913	11.3$\frac{5}{8}$	11.0	25	2$\frac{1}{8}$	4$\frac{5}{8}$	8	1088
914	9.7$\frac{1}{4}$	9.3$\frac{1}{2}$	14	2$\frac{1}{8}$	4$\frac{5}{8}$	12	612
915	9.0	8.8$\frac{1}{8}$	20	2$\frac{1}{8}$	4$\frac{3}{4}$	8	680
916	8.7$\frac{1}{2}$	8.3$\frac{1}{2}$	15	2$\frac{1}{8}$	4$\frac{5}{8}$	10	540
917	5.10$\frac{7}{8}$	5.6$\frac{3}{4}$	13	2$\frac{1}{8}$	4$\frac{5}{8}$	8	408
918	7.7$\frac{1}{2}$	7.4$\frac{1}{4}$	17	2$\frac{1}{8}$	6	8	684
919							
920							
921							
922							
923							
924							
925							
926							
927							
928							
929	18.4$\frac{1}{2}$	18.0$\frac{1}{2}$	22	2	3$\frac{1}{2}$	16	1360
930	15.3$\frac{1}{2}$	15.0	18	2	3$\frac{1}{2}$	16	1088
931	12.8$\frac{5}{8}$	12.4$\frac{3}{4}$	30	2	3$\frac{3}{4}$	8	748
932	14.5$\frac{3}{4}$	14.1$\frac{7}{16}$	17	2	3$\frac{3}{4}$	16	896
933	10.3$\frac{1}{2}$	9.11$\frac{3}{4}$	10 of 16; 2 of 17.	2	4	12	680
934	7.1$\frac{1}{2}$	6.10	17	2	5$\frac{1}{2}$	8	544
935	9.2$\frac{3}{4}$	8.11$\frac{1}{4}$	29	2	5$\frac{1}{4}$	6	854
936	8.5$\frac{7}{8}$	8.2$\frac{3}{8}$	20	2	4	8	568
937							
938							
939							
940							
941							
942							
943							
944							
945							
955	7.11	7.7$\frac{3}{4}$	22	1$\frac{1}{16}$	4$\frac{3}{8}$	8	540
956							
957							
958							
959							
960							
961							
962							
963							
964							
965							
966							
967							

SPUR SEGMENTS.

No. of Pattern.	Diameter on Pitch Line.	Inside Diameter.	No. of Cogs.	Pitch.	Face.	No. of Segments	Weight.
No.	Ft. In.	Ft. In.	No.	Inches.	Inches.	No.	Pounds
968	11.9½	11.6	36	1 9/16	2⅞	8	680
969							
970							
971							
872							
973							
974							
975							
976							
977							
978				1½	3	24	817
979	21.11	21.8	23	1⅜	3½	24	830
980	17.3	17.0	18	1½	3¼	12	612
981	10.6	10.3	22				
982							
983							
984							
985							
986							
987							
988							
989							
990							
1001	16.4	16.1¼	22	1¾	3½	16	684
1002							
1003							
1004							
1005							
1006							
1007							

SEGMENTS FOR RACK WHEELS ON SAW MILLS.

1021	4.5½		27	1	1 5/8	6	108
1022	5.2⅝		31	1 1/16	1 3/4	6	104
1023	4.11½		31	1	1¾	6	106
1024							
1025							
1026							
1027							
1028							
1029							
1030							
1031							



No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
1032	3.11¾	50	3	10	4¾	1414
1033	3.3½	42	3	7½	5	870
1034						
1035						
1036	2.11	40	2¾	8	3½	720
1037						
1038						
1039						
1040	2.3¼	38	2¼	5½	3	275
1041	2.3¼	38	2¼	7	3⅜*	
1042	2.3¼	38	2¼	7	3⅜*	
1043						
1044						
1045						
1046						
1047						
1048						
1049						
1050						
1051						
1052	2.8½	51	2	5	3½	314
1053	2.0⅛	38	2	5	2⅝	196
1054	1.7⅝	30	2	5	2¾	128
1055	1.7⅛	30	2	2½	2¼	75
1056	1.2	22	2	3¾	1⅞	80
1057	2.4	44	2	5	3¼	259
1058						
1059						
1060						
1061						

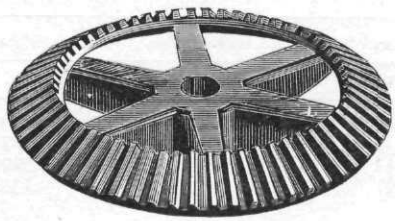
* MORTISE MITER PINION AND WHEEL.

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
1077	1.8½	40	1⅝	3	2⅝	96
1078						
1079						
1080						
1081						
1082						
1083						
1084						
1088	2.3⅜	55	1 9/16	3⅜	2	192
1089	2.1⅛	51	1 9/16	2½	1⅜	
1090	1.8 1/16	40	1 9/16	3⅛	1½	96
1091	1.11½	47	1 9/16	3½	2⅜	112
1092						
1093						
1094						
1095						
1096						
1097						
1098						
1102	2.3¼	57	1½	3⅝	2⅝	192
1103	1.9½	45	1½	4	2¾	98
1104	1.1⅛	29	1½	3	2	
1105						
1106						
1107						
1108						
1109						
1110						
1120	1.3¾	34	1 7/16	3	1¾	50
1121						
1122						
1123						
1124						
1125						
1126						
1127						
1128						
1129	1.1 9/16	31	1⅜	3¼	1⅝	45
1130						
1131						
1132						
1133						
1134						
1135	1.5½	44	1¼	2⅛	1¾	45
1136	.10⅝	27	1½	2⅝	1⅛	30
1137	1.5 15/16	45	1¼	3	2	60

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Pounds.
1138						
1139						
1140						
1141						
1150	.6 1/16	17	1⅛	2½	1¼	
1151	1.5⅝	51	1⅛	2½	1⅝	50
1152	1.1/100	34	1⅛	2⅛	2	25
1153	.9½	26	1⅛	2¼	1½	
1154						
1155						
1156						
1157						
1158						
1159						
1163	1.6¾	60	1	2½	1¾	40
1164	.9⅝	30	1	1⅝		
1165	1.2	43	1	2½	1¾	28
1166						
1167						
1168						
1169						
1170						
1175	1.1¾	47	1 5/16	2½	1⅞	
1176						
1177						
1178						
1179						
1183	.11¾	42	⅞	1¾	2¼	26
1184						
1185						
1194	1.0⅛	52	¾	1⅜	1⅛	15
1195	.8	33	¾	1⅜	1¼	10
1196	.9 1/16	38	¾	1¾	1½	11
1197						
1198						
1199						
1200	.5	25	⅝	1¼	1	
1201						
1202						
1203						
1204						
1205						
1206	.5⅝	35	½	1	1	
1207						
1208						

BEVEL MASTER WHEELS IN SEGMENTS WITH IRON SPIDER AND PINIONS.

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	No. Segments	Backing.	Weight.	Proportion.
No.	Ft. In.	No.	In.	In.	No.	In.	Lbs.	
1	7.5 3/4	120	2 3/8	5 1/4	8	9	1380	1 to 4.615
	1.7 5/8	26	2 3/8	5 1/4		2	208	
2	5.10	88	2 1/2	6 3/4	8	7	1388	1 to 2.2
	2.7 3/8	40	2 1/2	6 3/4			464	
3	9.11 3/8	150	2 1/2	6	10	9	2162	1 to 4.166
	2.4 5/8	36	2 1/2	6		5/8	576	
4	8.4 1/4	120	2 5/8	6	8	9 1/2	1690	1 to 4.
	2.1	30	2 5/8	6		2 1/4	288	
5	5.3	72	2 3/4	5 1/2	8	4 1/4	964	1 to 2.25
	2.4	32	2 3/4	5 1/2		1 1/2	275	
6	6.7 1/2	80	3 1/8	7 1/2	8	9 3/4	1912	1 to 2.58
	1.6 3/4	31	3 1/8	7 1/2		2	560	
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								



No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.	Proportion.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Lbs.	
23	5.0 3/8	63	3	6	6 3/4	993	1 to 1.575
	3.2 1/8	40	3	6	4	560	
24	3.4 1/2	42	3	5 1/4	4 1/2	430	1 to 2.
	1.8 1/8	21	3	5 1/4	3	144	
25	6.4 7/10	80	3	10	10	2490	1 to 2.5
	2.6 6/10	32	3	10	2 1/4	720	
26							
27	5.1 1/4	70	2 3/4	8	6 1/8	1303	1 to 1.75
	2.11	40	2 3/4	8	2 1/4	619	
28							
29							
34	5.8 1/8	84	2 9/10	7	7 3/4	1315	1 to 2.71
	2.0 3/4	31	2 9/10	7	2 1/2		
35							
36							
37	4.6 1/8	68	2 1/2	7	6 1/2	1040	1 to 4.
	1.1 5/8	17	2 1/2	7	5/8	192	
38	3.11 3/4	60	2 1/2	10	4	1150	1 to 1.017
	3.10 5/10	59	2 1/2	10	3 7/8	1140	
39	4.11 1/10	75	2 1/2	7	6	918	1 to 2 1/2
	1.11 1/8	30	2 1/2	7	2	338	
40	3.11 3/8	60	2 1/2	8	4 3/8	896	1 to 1.346
	3.0 1/2	45	2 1/2	8	3 1/2	448	
41	7.5 1/2	125	2 1/2	7	10 1/2	1785	1 to 4.165
	1.9 1/2	30	2 1/2	7	2	250	
42	2.11 3/10	50	2 1/2	6	4	428	1 to 1.428
	2.1 1/10	35	2 1/2	6	2 1/4	247	
43	2.9 1/10	47	2 1/2	7	4 1/8	460	1 to 1.119
	2.6 1/10	42	2 1/2	7	3 1/4	365	
44	4.0 3/4	68	2 1/2	5	6 1/2	604	1 to 3.4
	1.2 3/8	20	2 1/2	5	1	121	
45	2.10 4/10	48	2 1/2	7	4 3/4	457	1 to 2.
	1.5 2/10	24	2 1/2	7	1 3/4	247	

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.	Proportion.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Lbs.	
50	4.3 9/16	72	2 1/4	6 1/2	5 1/4	740	1 to 1.8
	2.4 1/16	40	2 1/4	6 1/2	2	327	
51	4.1 1/2	72	2 3/16	4 3/4	3 1/2	500	1 to 2.88
	1.5 3/8	25	2 3/16	4 3/4	1 1/2	135	
52							
53							
54							
55							
56							
57							
58							
59							
70							
71	8.3 1/4	156	2	5 5/8	8 3/8	1565	1 to 4.105
	2.0 1/4	38	2	5 5/8	1 3/4	265	
72	5.0 1/2	95	2	6	6 1/4	730	1 to 2.638
	1.10 9/16	36	2	6	1 3/8	250	
73	4.00 3/8	76	2	5 1/2	5 1/4	636	1 to 4
	1.00	19	2	5 1/2	1 3/4	50	
74	2.11 3/8	56	2	5	4 1/2	304	1 to 2.24
	1.3 9/16	25	2	5	1 1/4	120	
75	2.7 3/4	50	2	5	3 3/4	275	1 to 1.425
	1.10 1/4	35	2	5	2 1/4	175	
76	3.4 1/8	63	2	5 1/2	3 1/2	496	1 to 1.4
	2.4 3/8	45	2	5 1/2	2 1/4	288	
77	2.2 3/4	42	2	4	3 1/2	128	1 to 3.
	.8 3/8	14	2	4	5/8	40	
78	1.10 9/16	36	2	5	3	175	1 to 1.241
	1.4 1/16	29	2	5	2 1/4	155	
79	1.9	33	2	5	2 3/8	155	1 to 1.65
	1.0 3/4	20	2	5	1 1/2	75	
80	3.6 1/2	66	2	6	4 1/8	464	1 to 1.737
	2.1/2	38	2	6	2 1/2	227	
81	2.1 9/16	40	2	4	3 3/4	198	1 to 1.6
	1.4	25	2	4	2 3/8	118	
82	5.0 7/16	95	2	6	6 1/4	826	1 to 5.
	1.0 3/8	19	2	6	0 1/2	55	

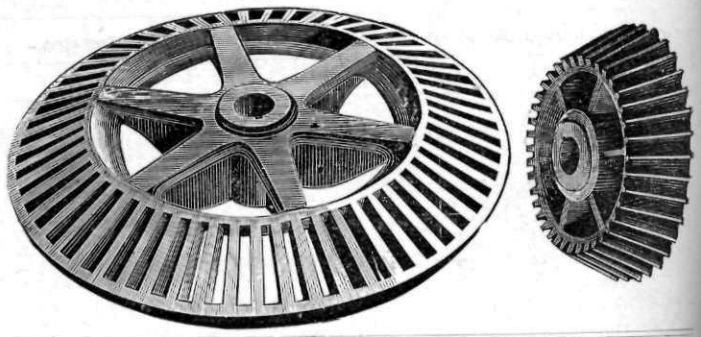
No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.	Proportion.
No.	Ft. In.	No.	In.	In.	In.	Lbs.	
83							
84							
85							
86							
87							
111	4.8 1/4	101	1 3/8	6	8	840	1 to 2.295
	2.0 1/2	44	1 3/8	6	2 1/4	310	
112	4.0	89	1 3/8	4 1/4	4 1/2	415	1 to 2.135
	1.8 1/4	37	1 3/8	4 1/4	1 1/8	135	
113	2.6 1/2	55	1 3/4	4	3 5/8	250	1 to 1.25
	2.0 1/2	44	1 3/4	4	2 3/4	183	
114	1.8	36	1 3/4	4	3	100	1 to 1.333
	1.3	27	1 3/4	4	2	86	
115	2.4 3/8	51	1 3/4	4 1/4	4 3/8	195	1 to 2.684
	.10 5/8	19	1 3/4	4 1/4	1	60	
116	1.10 1/4	40	1 3/4	4	3 1/4	130	1 to 2.
	.11 1/8	20	1 3/4	4	1	65	
117							
118							
119							
120							
121							
122							
124	2.5 3/4	56	1 6/10 6	3 1/2	4	188	1 to 4.
	.7 1/16	14	1 6/10 6	3 1/2	3/8	27	
125							
134	5.0 1/2	117	1 5/8	4 1/2	4 1/2	640	1 to 3.
	1.8 1/2	39	1 5/8	4 1/2	1 1/8	142	
135							
136	3.6 1/2	89	1 1/2	4	5	331	1 to 2.617
	1.4 1/2	34	1 1/2	4	1 1/2	90	
137	3.3 1/4	82	1 1/2	3 1/2	3 3/4	212	1 to 2.
	1.7 3/4	41	1 1/2	3 1/2	1 1/2	104	

No. of Patter	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.	Proportion.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Lbs.	
138	3.0 1/4	75	1 1/2	4	4	235	1 to 2.273
	1.3 7/8	33	1 1/2	4	1	77	
139	1.11 7/8	50	1 1/2	4	2 3/8	105	1 to 2.
	.11 15/16	25	1 1/2	4	7/8	51	
140	1.11	48	1 1/2	2 5/8	2 1/2	75	1 to 1.256
	1.6 5/8	39	1 1/2	2 5/8	2 1/4	60	
141	1.10	46	1 1/2	3	2 1/2	78	1 to 1.437
	1.3 3/16	32	1 1/2	3	1 1/2	53	
142	1.9	44	1 1/2	3	2	70	1 to 1.265
	1.4 1/4	34	1 1/2	3	1 1/2	59	
143	1.6 1/4	38	1 1/2	3	2 1/4	67	1 to 1.155
	1.3 5/16	33	1 1/2	3	2 1/4	57	
144	1.2 1/4	30	1 1/2	3 1/2	2 1/2	51	1 to 1.666
	.8 5/8	18	1 1/2	3 1/2	1	32	
145	2.1 3/4	54	1 1/2	3	3 3/4	102	1 to 2.7
	.9 1/2	20	1 1/2	3	7/8	33	
146	1.5 1/16	36	1 1/2	3	2 3/8	60	1 to 1.5
	.11 1/2	24	1 1/2	3	1 1/4	38	
147	2.7 1/2	66	1 1/2	3 1/2	4 1/8	196	1 to 2.
	1.3 3/4	33	1 1/2	3 1/2	1 1/2	76	
148	1.8 1/16	42	1 1/2	3 1/2	2 1/2		1 to 2.33
	.8 5/8	18	1 1/2	3 1/2	1		
149	2.1 13/16	54	1 1/2	4	2 3/8	152	1 to 1.20
	1.9 1/2	45	1 1/2	4	2	113	
150	2.10 3/8	72	1 1/2	3 1/2	5 1/4	216	1 to 6
	5.3/4	12	1 1/2	3 1/2	1/4	21	
151							
152							
153							
154							
155							
176	2.1 3/8	64	1 1/4	2 1/2	2 1/2	96	1 to 1.066
	1.11 7/8	60	1 1/4	2 1/2	2 1/2	88	
177	2.0 1/2	62	1 1/4	3	3 3/8	77	1 to 2.066
	1.0	30	1 1/4	3	1 3/4	41	
178	1.10	55	1 1/4	3	2 7/8	85	1 to 1.833
	1.0	30	1 1/4	3	1 3/4	64	
179	1.5 7/8	45	1 1/4	3	2	48	1 to 2.045
	.8 3/4	22	1 1/4	3	7/8	22	
180	.11 1/8	28	1 1/4	2 3/4	2 3/8	45	1 to 2.
	.5 9/16	14	1 1/4	2 3/4	5/8	18	

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.	Proportion.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Lbs.	
181	2.0 1/16	62	1 1/4	3	1 3/8	94	1 to 1.70
	1.2 3/8	37	1 1/4	3	1 1/8	73	
182	1.9 9/16	55	1 1/4	3	3 1/4	82	
	.7 6/16	19	1 1/4	3	5/8	27	
183	2.6 1/4	76	1 1/4	3	4	115	1 to 4.
	.7 9/16	19	1 1/4	3	1/2	25	
184	1.11 8/100	60	1 1/4	3	3 1/2	94	1 to 3.
	.7 9/100	20	1 1/4	3	5/8	29	
185							
186							
187							
200	2.3 3/16	76	1 1/8	2 1/2	3 1/8	96	1 to 2.
	1.1 5/8	38	1 1/8	2 1/2	1 1/4	40	
201	1.8	56	1 1/8	3	2	65	1 to 1.285
	1.3	42	1 1/8	3	1 1/2	45	
202	1.2 5/16	40	1 1/8	2 1/4	2 1/2	30	1 to 2.5
	.5 1/4	16	1 1/8	2 1/4	1/2	12	
203							
204							
205							
206							
207							
218	1.11 3/4	72	1 1/16	2	2 7/8		1 to 2.
	.11 7/8	36	1 1/16	2	1		
219	1.8 5/8	61	1 1/16	3	2 5/8	63	1 to 1.452
	1 2 3/8	42	1 1/16	3	1 1/8	48	
220							
221							
222							
225	1.6	57	1	2 1/4	2 3/8		1 to 3.355
	.5 1/2	17	1	2 1/4	3/8		
226	1.4	50	1	2 1/2	2	37	1 to 1.351
	.11 3/4	37	1	2 1/2	1 3/8	27	
227	2.0 1/4	76	1	2 1/2	3	63	1 to 4.
	.6 1/8	19	1	2 1/2	1/4	14	

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.	Proportion.
No.	Ft. In.	No.	Inches.	Inches.	Inches.	Lbs.	
228	2.0½	77	1	2½	3¼	65	1 to 7.
	.3½	11	1	2½	1¼	6	
229	1.1½	42	1	2¼	2½	35	1 to 3.5
	.3⅜	12	1	2¼	5/16	7	
230							
231							
232							
233							
234	.8 1/16	27	15/16	1½	1½	10	1 to 2.25
	.3⅜	12	15/16	1½	1½	5	
235							
236							
240	1.6	65	⅞	2	3⅛	34	1 to 5.91
	.3	11	⅞	2	1¼	4	
241							
242							
260	1.7⅜	81	¾	2⅛	1 5/16	33	1 to 1.125
	1.5 3/16	72	¾	2⅛	1 5/16	25	
261	1.3⅛	62	¾	1¾	1⅞	18	1 to 1.55
	.9¾	40	¾	1¾	1⅛	14	
262	1.2⅛	60	¾	1⅝	1⅝	19	1 to 1.176
	1.0⅛	51	¾	1¾	1¼	17	
263	1.2⅛	60	¾	1⅞	1⅝	25	1 to 1.363
	.10½	44	¾	1⅞	1⅜	18	
264	1.0¾	52	¾	1¾	2	15	1 to 2.
	.6⅜	26	¾	1¾	¾	10	
265	.7⅜	30	¾	1½	⅝	9	1 to 1.5
	.4⅝	20	¾	1½	⅜	6	
266	.4¾	20	¾	1½	1	5	1 to 1.428
	.3⅜	14	¾	1½	½	3	
267							
268							
269							
270							

No. of Patten.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Weight.	Proportion.
No.	In. Ft.	No.	Inches.	Inches.	Inches.	Lbs.	
275							
276							
296	1.0⅜	48	13/16	1¾	2¼	18	1 to 3.
	.4⅛	16	13/16	1¾	⅜	5	
297	.8 13/16	36	13/16	1¼	2		1 to 3.
	.2 5/16	12	13/16	1¼	1⅝		
300							
301							
306	.9½	48	⅝	1¼	½		1 to 2.078
	.4⅝	23	⅝	1¼	¼		
307							
310							
315	.4 15/16	29	17/32	1	1		
	.2 9/16	15	17/32	1	⅛		
316							
320							
321	.11⅝	70	½	1 3/32		20	1 to 2.8
	.4	25	½	1 3/32		3½	
322	.8⅝	55	½	⅝	⅞	4	1 to 2.6
	.3 5/16	21	½	⅝	½	2	
323							
324							
330	.7⅜	60	⅜	⅞	½	5	1 to 3.
	.2 1/16	20	⅜	⅞	½	1	
331							
332							
349	1.4½	78	11/16	2	1⅜	25	1 to 4.582
	3.1 1/16	17	11/16	2		4	
350							
364	1.4½	78	11/16	2	1⅝	25	1 to 5.2
	.3 5/16	15	11/16	2		3	
365							



No. of Pattern.	Diameter.	No of Cogs.	Pitch	Face.	Backing.	Depth of Rim.	Depth of Mortise.	Width of Mortise.	W'h't	Proportion.
No.	Ft. In.	No.	In.	In.	In.	In.	In.	In.	Lbs.	
367	7.0 1/10	66	4	12	12	3 3/4	11 1/2	2x1 5/8	3640	1 to 3
	2.4 1/10	22	4	12	2					
368										
369										
372	8.2	88	3 1/2	14	14 1/2	4	12 1 4 or 2 of 6 1-4 3-4 bridge.	1 3/4x1 1/2	5050	1 to 3.384
	2.5	26	3 1/2	14	1 5/8			1 1/2x1 5/16	900	
373	6.11 5.0/100	75	3 1/2	14	14 1/2	3 3/4	13 5-8 or 2 of 6 1-2 5-8 bridge.	1 1/16x1 1/2	3310	1 to 2 1/2
	2.9 4.6/100	30	3 1/2	14	1 1/2			1 1/2x1 5/16	1100	
374	5.6 7/8	60	3 1/2	12	10	3 3/4	11 5-8 or 2 of 5 1-2 5-8 bridge.	1 1/16x1 1/2	2276	1 to 2.068
	2.8 3/8	29	3 1/2	12	2 3/8			1 1/2x1 5/16	962	
375										
376										
381	6.2 1/2	78	3	8	9 3/4	3	7	1 3/8x1 1/8	1836	1 to 2.
	3.1 1/4	39	3	8	5				688	
382	5.8 3/8	72	3	10	9 1/2	3 1/8	9 1/2	1 7/16x1 1/16	2076	1 to 1.756
	3.3 3/16	41	3	10	2 3/4				866	
383	5.3 1/16	66	3	10	9 3/8	3 1/4	9 1/2	1 9/16x1	1880	1 to 1.885
	2.9 7/16	35	3	10	2 1/4				740	
384	4.3 6/16	54	3	12	7 1/2	3 1/4	11 1/2	1 7/16x1 5/16	1558	1 to 1.542
	2.9 7/16	35	3	12	3 1/4				830	
385	5.7 8.2/100	71	3	9	10 1/4	3 1/4	8 1/2	1 7/16x1 1/8	1504	1 to 3.736
	1.6 2.3/100	19	3	9	1 7/8				340	
386	5.0 3/16	63	3	10	9 1/2	3 1/2	9 1/2	1 5/8x1 1/8	1640	1 to 3.
	1.8 1/16	21	3	10	1 1/2				360	
387	6.2 1/2	78	3	10	9 1/4	3	9 1/2	1 1/2x1 3/16	2245	1 to 2.44
	2.6 6/16	32	3	10	2				670	
388	3.11 3/4	50	3	10	7	3	9 5/8	1 1/2x1	1260	1 to 1.5
	3.2 3/16	40	3	10	3 1/2				805	

No. of Patternn.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Depth of Rim.	Depth of Mortise.	Width of Mortise.	W'g't	Proportion.
No.	Ft. In.	No.	In.	In.	In.	In.	In.	In.	Lbs.	
389	3.9 8.7/100	48	3	12	6 1/2	3 1/4	11 1/2 or 2 of 5 1/2	1 7/16x1 5/16	1350	1 to 1.09
	3.6 5/100	44	3	12	6 1/2				1316	
390	5.8 7.8/100	72	3	12	9 3/8	3 1/4	11 3/4 or 2 of 5 5/8	1 1/4x1	2250	1 to 2.88
	1.11 9.3/100	25	3	12	1 5/8				825	
391										
392										
393										
394	6.8 1/2	88	2 7/8	6 1/4	9 1/2	2	5	1 3/8x1 1/8	1112	1 to 4.4
	1.6 1/4	20	2 7/8	6 1/4	2 1/2	2	5	1 1/8x1 1/8	224	
395										
396	7.0	96	2 3/4	8	11 1/4	2 7/8	7 1/2	1 3/4x1 1/8	2100	1 to 3.43
	2.1/2	28	2 3/4	8	1				380	
397	5.3 1/16	72	2 3/8	9	8 1/4	3	8 1/2	1 3/8x1 1/16	1507	1 to 2.057
	2.6 8	35	2 3/4	9	2 1/8				616	
398										
399										
400										
401										
402										
403										
407	5.11 5/8	90	2 1/8	8	9 3/4	3 1/4	7 3/4	1 1/4x1	1336	1 to 2.
	2.11 1/4 3/8	45	2 1/8	8	2 3/8				571	
408	3.11 1/4	60	2 1/2	9	6	3	8 1/2	1 3/8x1 5/16	864	1 to 1.5
	2.7 1/16 3/8	40	2 1/2	9	2 1/2				440	
409	3.11 1/4	60	2 1/2	8	7	2 7/8	7 3/4	1 3/8x1	736	1 to 2.222
	1.9	27	2 1/2	8	1 5/8				255	
410	3.6 7/8	54	2 1/2	4	6	2 1/8	3 1/2	1 3/8x1 3/16	376	1 to 2.842
	1.3 1/8	19	2 1/2	4	1 1/2				84	
411	3.11 3/4	60	2 1/2	9	6	3	8 1/2	1 3/16x1 3/16	872	1 to 1.714
	2.3 7/8	35	2 1/2	9	2 1/2				397	
412										
413										
414										

No. of Pattern.	Diameter.	No. of Cogs.	Pitch.	Face.	Backing.	Depth of Rim.	Depth of Mortise.	Width of Mortise.	W'h't	Proportion.
No.	Ft. In.	No.	In.	In.	In.	In.	In.	In.	Lbs.	
417										
418										
419										
420										
424	5.0 1/8	84	2 1/4	5	7	1 7/8	4 1/8	1 1/4 x 1 1/8	686	1 to 2.
	2.6	42	2 1/4	5	1 3/4				373	
425	4.0	67	2 1/4	5 1/4	6 1/2	1 3/4	4 1/4	1 1/4 x 1 1/8	503	1 to 3.722
	1.0 7/8	18	2 1/4	5 1/4	1				84	
426	2.11 1 3/16	50	2 1/4	8	4 1/4	2 5/8	7 1/2	1 1/4 x 1 3/16	395	1 to 1.02
	2.11 1/16	49	2 1/4	8	3 1/4				390	
427	2.3 1/4	38	2 1/4	7	3 3/4	2 3/8	6 1/2	1 1/8 x 1 3/16	245	1 to 1.
	2.3 1/4	38	2 1/4	7	3 5/8				261	
428	4.0 3/4	68	2 1/4	8	6	2 5/8	7 5/8	1 1/2 x 1 5/16	750	1 to 2.
	2.0 3/8	34	2 1/4	8	1 5/8				346	
429	2.10 3/8	48	2 1/4	7	4 1/8	2 3/8	6 5/8	1 1/16 x 1 1/16	545	1 to 1.2
	2.4 5/8	40	2 1/4	7	2 1/2				280	
430	2.11 1 3/16	50	2 1/4	8	6 1/8	2 3/8	7 1/2	1 1/8 x 1 3/16	570	1 to 1.162
	2.6 1 3/16	43	2 1/4	8	2 1/4				378	
431	3.1 1/2	52	2 1/4	7	4 3/4	2 1/2	6 5/8	1 1/16 x 2 3/4	456	1 to 1.486
	2.1 1/16	35	2 1/4	7	2				30	
432	5.5 7/8	92	2 1/4	6	7 1/2	2 3/8	5 5/8	1 1/8 x 1	1026	1 to 1.957
	2.9 1 1/16	47	2 1/4	6	2				437	
433										
434										
441	2.6 1/2	48	2	6	5	2	5	1 1/16 x 3/4	216	1 to 2.087
	1.2 5/8	23	2	6	3 5/8				80	
442	2.1 1/2	40	2	6	3 5/8	2	5 1/2	1 1/16 x 1 1/16	190	1 to 1.081
	1.11 1/2	37	2	6	2 1/8				150	
443	2.6 1 9/16	48	2	6	3 1/2	2 1/4	5 1/2	1 1/16 x 1 1/16	250	1 to 1.02
	2.5 1 5/16	47	2	6	2 5/8				24	
444	4.0 3/8	76	2	6	5 1/2	2 1/4	5 1/2	1 1/16 x 7/8	507	1 to 1.948
	2.0 3 1/16	39	2	6	1 5/8				205	
445	4.5 1 7/16	84	2	6	7 1/4	2 3/8	5 5/8	1 1/16 x 1 1/8	800	1 to 3.111
	1.5 3/16	27	2	6	1 1/2				142	
446	1.8 3/8	32	2	6	3 1/2	2	5 3/4	1 x 5/8	160	1 to 1.032
	1.7 3/4	31	2	6	2 1/2				132	
447	5.10 1 4/16	110	2	6	9 1/4	2 1/2	5 1/2	1 x 1 1/8	1140	1 to 5.
	1.2 5/16	22	2	6	3/4				90	
448	2.4	44	2	5	4 1/4	2 1/8	4 5/8	1 1/16 x 1 1/16	231	1 to 1.419
	1.7 3/4	31	2	5	2 5/8				128	

No. of Pattern.	Diameter.	No of Cogs.	Pitch	Face.	Backing.	Depth of Rim.	Depth of Mortise.	Width of Mortise.	W'g't	Proportion.
No.	Ft. In,	No.	In.	In.	In.	In.	In.	In.	Lbs.	
449	1.10 1 5/16	36	2	6	4 1/4	2	5 5/8	1 x 9/16	185	1 to 1.333
	1.5 1/4	27	2	6	2				105	
450	2.10 4 0/16	54	2	6	4 3/4	2 1/4	5 5/8	1 x 1 1/16	372	1 to 1.588
	1.9 6 7/16	34	2	6	1 7/8				193	
451										
452										
466	1. 1/2	44	1 3/4	5	3 7/8	2	4 1/2	1 3/16 x 9/16	135	1 to 1.913
	1. 1 3/16	23	1 3/4	5	1				65	
467	2.7 9/16	56	1 3/4	5	3 7/8	2	4 5/8	7/8 x 1 1/16	190	1 to 1.272
	2.0 1/2	44	1 3/4	5	2 1/2	2			153	
468										
469										
470										
471										
472										
480	2.6 9/16	64	1 1/2	4 1/2	5 1/8	1 3/4	4 1/8	3/4 x 9/16	150	1 to 4
	.7 7/8	16	1 1/2	4 1/2	1/2				40	
481										
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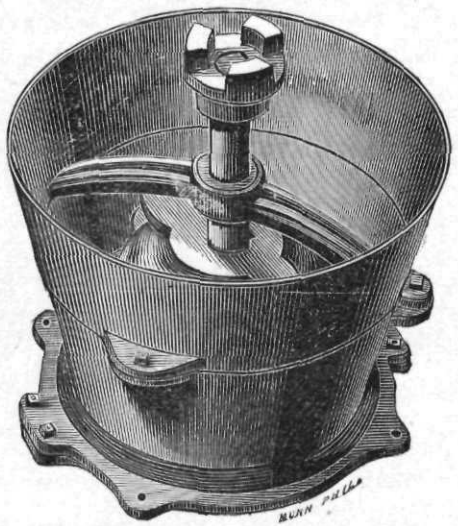
491										



Mill Complete.

After a number of years' experience by the largest Tanners and Extract manufacturers with Hemlock and Oak Bark, as well as manufacturers of Quer Citron, we do not hesitate to say that the **YORK BARK MILL** *is the best now in use for grinding Fast, Fine and Even.* It grinds damp bark when other mills gum up. It grinds very *regular, avoiding dust* and *coarse pieces.*

For grinding Quer-Citron and Hemlock Bark it is unsurpassed and is used almost exclusively in the Southern Counties in Pennsylvania and in Maryland. It is heavy and strong and not liable to break. Every part of it is cast solid, and, in case of an accidental break or wear out, any part can easily be replaced.

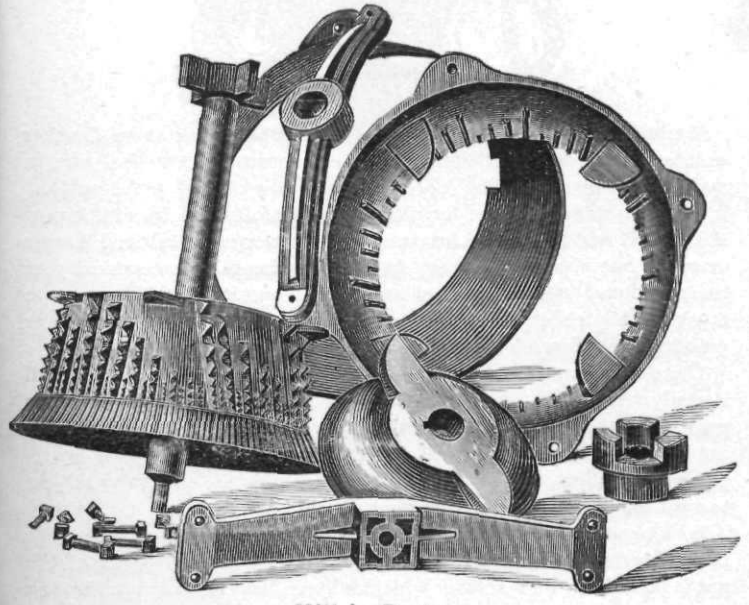
We manufacture this mill in two different ways. It is adapted to steam or horse power and is made to run with or against the sun.

No. 1 is a *Steam* or *Water Power* Mill, as shown in cut of *mill complete*, containing all the parts as shown in cut of *mill in parts* (excepting the winged gudgeon). It consists of a *Shell, Nut Bridgetree with Steel-lined Step Box, Breaker, Top Brace with Bearing, Hopper, and Wrought Iron Shaft with Steel Toe.* Shaft is $3\frac{3}{8}$ in. diameter and 37 inches long from bottom of shell (or floor on which it rests,) to the centre of the coupling and a clutch coupling for $3\frac{3}{8}$ shaft. By special order this coupling will be bored so as to receive almost any desired

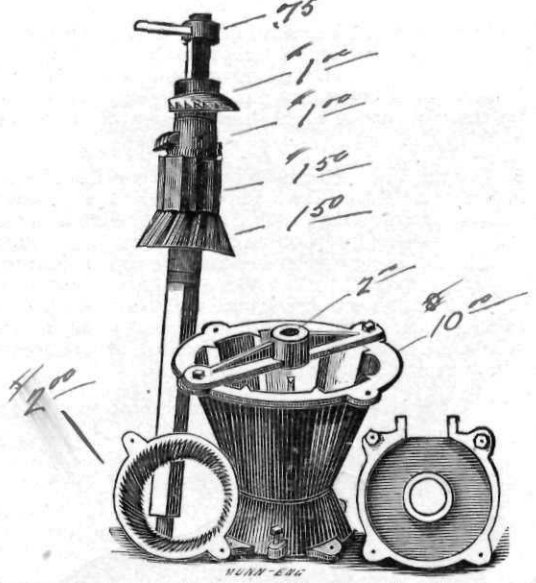
size of shaft into its upper half. The shaft of the mill can also be made of any desired length, if so ordered, by paying the difference of the length at the rate of wrought iron shafting of that size. This mill is intended for steam or water, should run at the rate of 60 or 80 revolutions per minute and with about eight horse power will grind a cord of Bark an hour.

No. 2 is a Mill intended for Horse-Power and consists of a *Shell, Closed Nut, Bridgetree with Steel-lined Step Box, Top Brace* (straight) *with Bearing, Wrought Iron Shaft with Steel Toe.* Shaft is $2\frac{3}{8}$ inches in diameter and 26 inches long from bottom of shell to centre of coupling. The coupling in this mill is a gudgeon as shown on top of shaft in cut of *mill in parts*, and is intended for a wooden shaft. If desired it can also be furnished with clutch coupling to use with an iron shaft in the same manner as Mill No. 1. This mill will grind an amount in proportion to No. 1 mill as the proportion of the revolution is between the two mills. If the horse walks fast it will grind fast.

PRICE OF No. 1 Mill, Steam or Water Power, 1200 lbs. in weight, $75.00
" " 2 " Horse " 900 " " " 60.00



Mill in Parts.



We have been manufacturing this Corn Breaker (or Corn Crusher as it is sometimes called,) for a number of years and we feel safe in saying it is one of the *Best Corn Crushers* now offered to the public.

The advantages claimed for it are about as follows: In addition to the conical and perpendicular nuts, it has two or more toothed flanges or saws, one above the other, fastened to the shaft eccentrically on their sockets, and in inclined and reverse positions. They act as crushers and feeders, first cutting the ears of corn, then pushing or pressing them down between the nut and the shell.

The nut is partly conical and partly straight or perpendicular, and is easily replaced in case of wearing out or breaking. The lower or conical part of the *Shell* is double, the inside or toothed part of it can be removed, and in case of a break or wearing out, it can be replaced; in short, any or all of the parts which are any way subject to wear can be replaced without any trouble.

It is closed at the bottom; this bottom is flat on its surface with raised bearing in the centre for the shaft, and the lower p rt of the nut is provided with a scraper which delivers the crushed corn through a spout at one side.

It will crush new corn, when for some other crushers it becomes necessary to dry it before it will pass through.

It can easily be regulated to grind coarse or fine.

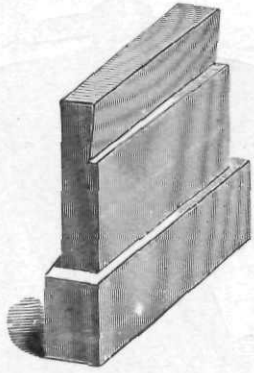
It will crush from 30 to 60 bushels of corn per hour, according to the speed, and with less power than any ordinary crusher.

The crushing parts are made of the very hardest and best iron suited to that purpose.

It is complete in itself and may be set on a frame or any convenient place to suit the power, which can be applied at the lower or upper end of the spindle as desired.

PRICE,.....$28.00.

WOODEN COGS FOR SPUR AND BEVEL MORTISE WHEELS.



We keep constantly on hand a large stock of thoroughly seasoned Maple and Hickory Wood from which to make Cogs. With machinery adapted to the purpose we are enabled to fill orders promptly and guarantee satisfaction.

Price of Cogs ready to drive.

4 inch face..... 8 cts.	6 inch face.....12 cts.	8 inch face.....16 cts.
5 " " .....10 "	7 " " .....14 "	9 " " .....18 "

Price per Cog, for Cogging Spur or Bevel Wheels, dressed ready for use.

4 inch face.....25 cts.	7 inch face.....40 cts.	10 inch face....55 cts.
5 " " .....30 "	8 " " .....45 "	11 " " ....65 "
6 " " .....35 "	9 " " .....50 "	

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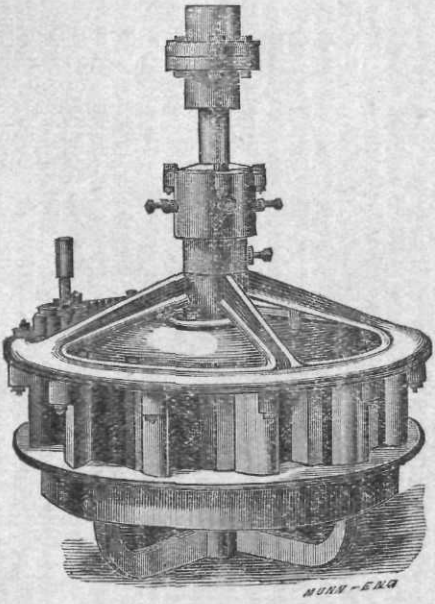

The Rechard Turbine Water Wheel.

Send for Descriptive Catalogue.